

Name:

Date:

Simplifying Polynomials

1 Are these "like" terms?

$$\mathbf{X}^2$$
 and \mathbf{X}

$$5x$$
 and $-3x$

No

Yes

No

Are these "like" terms?

2y and 2x

3xy and 4yx

No

Yes

Yes

No

No

3 Simplify.

$$4x^2 + 7 + 2x^2 + 3$$

Simplify.

$$12x^2 - 7 - 10x^2 + 4$$

5 Simplify.

$$-3x^2 + 4x^2 - 3x + 4x$$

Simplify.

$$-x^4 - x^4 + 7x + 5x - x + 3$$

Simplify.

$$2x^3 + 5x^2 + 10x^2 + 20 + x^3$$

Simplify.

$$x^3 - 5x^2 - 10x^3 + 8x + 9x^2$$

Simplify.

$$xy + 3x + 8y - x + 5 - 2y$$

Simplify. (Careful! This one is tricky.)

$$6yx + 3x^2y - 4y^2x + 2xy$$